

Translation
10/309723

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1214	FOR FURTHER ACTION	SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/JP00/03957	International filing date (day/month/year) 16 June 2000 (16.06.00)	Priority date (day/month/year) 17 June 1999 (17.06.99)
International Patent Classification (IPC) or national classification and IPC G01N 33/53, A61K 45/00, 39/395 // C12N 15/06, 15/12, C07K 16/28		
Applicant KYOWA HAKKO KOGYO CO., LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.
<input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of _____ sheets.
3. This report contains indications relating to the following items:
I <input checked="" type="checkbox"/> Basis of the report
II <input type="checkbox"/> Priority
III <input checked="" type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
IV <input type="checkbox"/> Lack of unity of invention
V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
VI <input type="checkbox"/> Certain documents cited
VII <input type="checkbox"/> Certain defects in the international application
VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 27 December 2000 (27.12.00)	Date of completion of this report 27 June 2001 (27.06.2001)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/03957

I. Basis of the report

1. With regard to the elements of the international application:*

 the international application as originally filed the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

 the claims:

pages _____, as originally filed

pages _____, as amended (together with any statement under Article 19

pages _____, filed with the demand

pages _____, filed with the letter of _____

 the drawings:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

 the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

 the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

 contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. The amendments have resulted in the cancellation of: the description, pages _____ the claims, Nos. _____ the drawings, sheets/fig. _____5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

the entire international application.

claims Nos. 32-42

because:

the said international application, or the said claims Nos. 32-42 relate to the following subject matter which does not require an international preliminary examination (*specify*):

The subject matter of Claim 32-42 relates to a method for diagnosis of the human body.

the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____ are so unclear that no meaningful opinion could be formed (*specify*):

the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed.

no international search report has been established for said claims Nos. 32-42

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

the written form has not been furnished or does not comply with the standard.

the computer readable form has not been furnished or does not comply with the standard.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-31,43-65	YES
	Claims		NO
Inventive step (IS)	Claims	1-20	YES
	Claims	21-31,43-65	NO
Industrial applicability (IA)	Claims	1-31,43-65	YES
	Claims		NO

2. Citations and explanations

Document 1: WO, 98/22626, A

Document 2: BIOSYS No. 199799785097

Document 3: BIOSYS No. 199799777801

Document 2: BIOSYS No. 199699135536

Document 1 describes a monoclonal antibody that specifically responds to the human VEGF receptor Flt-1.

Document 2 states that Flt-1 has an important role in monocyte and macrophage migration, document 3 states that VEGF stimulates monocyte activity and chemotaxis mediated by Flt-1, and document 4 states that Flt-1 is a receptor involved in monocyte migration.

Claims 21-31

Because it is known that Flt-1 is present in monocytes and macrophages, persons skilled in the art can easily conceive of using a monoclonal antibody specifically responding to Flt-1 for diagnosing illnesses involving monocytes and macrophages.

Moreover, techniques for preparing humanized antibodies are widely known, and it is not particularly difficult to convert the antibody described in document 1 to a humanized form.

Claims 43-53

Because it is known that Flt-1 is involved in the migration of monocytes and macrophages, persons skilled in the art can easily conceive of using a monoclonal antibody specifically responding to Flt-1 to inhibit the migration of monocytes and macrophages.

Claims 54-65

Because it is known that Flt-1 is present in monocytes and macrophages, persons skilled in the art can easily conceive of using a monoclonal antibody specifically responding to Flt-1 for treating illnesses involving monocytes and macrophages.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V (Citations and explanations):

Claims 1-20

None of the documents cited in the international search report or documents considered relevant to these inventions describes the inventions set forth in Claims 1-20, and these matters are not obvious to persons skilled in the art.